

DECLARATION AND POWER OF ATTORNEY FOR UTILITY OR DESIGN PATENT APPLICATION		Attorney Docket No.	BIT-001
		First Named Inventor	Perls
COMPLETE IF KNOWN			
		Application Serial Number	09/928,102
		Filing Date	August 10, 2001
		Group Art Unit	1645
		Examiner Name	Not Yet Assigned

As a below named Inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Genetic Loci Indicative of Propensity For Longevity And Methods For Indicative of Propensity
For Longevity and Methods For Identifying Propensity For Age-Related Disease

(Title of the Invention)

the specification of which

is attached hereto
OR

was filed on August 10, 2001 as United States Application Serial Number or PCT International
(MM/DD/YYYY)

Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose to the Patent Office all information known by me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information known by me which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, or inventor's certificate(s), or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES	Certified Copy Attached? NO
			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Serial Number(s)	Filing Date (MM/DD/YYYY)	
60/224,643	08/11/2000	<input type="checkbox"/> Additional provisional application serial numbers are listed on a supplemental priority data sheet attached hereto.
60/249,921	11/17/2000	

Declaration and Power of Attorney for Utility or Design Patent Application

Serial No. 09/928,102

Atty. Docket No. BIT-001

Page 2 of 3

DECLARATION – Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Serial Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto.

As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Customer Number → Place Customer Number Bar Code Label Here

OR

Registered practitioner(s) name/registration number listed below

Name	Registration Number	Name	Registration Number
Michael J. Bastian	47,411	John D. Lanza	40,060
Steven M. Bauer	31,481	Kurt W. Lockwood	40,704
Elias C. Behrakis	47,416	Thomas C. Meyers	36,989
John V. Bianco	36,748	Joseph B. Milstein	42,897
Maureen A. Bresnahan	44,559	David G. Miranda	42,898
Michael H. Brodowski	41,640	Ronda P. Moore	44,244
Jennifer A. Camacho	43,526	Indranil Mukerji	46,944
Joseph A. Capraro, Jr.	36,471	Edmund R. Pitcher	27,829
John J. Cotter	38,116	Michael A. Rodriguez	41,274
Brian A. Fairchild	P-48,645	Jamie H. Rose	45,054
John V. Forcier	42,545	R. Stephen Rosenholm	45,283
Steven J. Frank	33,497	Christopher W. Stamos	35,370
Kia L. Freeman	47,577	Diana M. Steel	43,153
Brian M. Gaff	44,691	Joel Stettenheim	P-48,797
Duncan A. Greenhalgh	38,678	Joseph P. Sullivan	45,349
William G. Guerin	41,047	Robert J. Tosti	35,393
Jonathan A. Harris	44,744	Thomas A. Turano	35,722
Ira V. Heffan	41,059	Christine C. Vito	39,061
Danielle L. Herritt	43,670	Patrick R.H. Waller	41,418
Douglas J. Kline	35,574	Daniel A. Wilson	45,508
		Gerald E. Worth	45,238
		Yin P. Zhang	44,372

Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto.

Direct all correspondence to:

Patent Administrator
Testa, Hurwitz & Thibeault, LLP
High Street Tower
125 High Street
Boston, MA 02110
Tel. No.: (617) 248-7000
Fax No.: (617) 248-7100

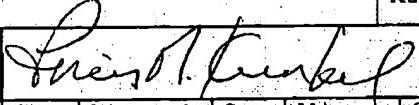
Declaration and Power of Attorney for Utility or Design Patent Application

Serial No. 09/928,102

Atty. Docket No. BIT-001

Page 3 of 3

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:		<input type="checkbox"/> A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])		Family Name or Surname						
Louis		Kunkel						
Inventor's Signature							Date 11/2/01	
Residence	City	Westwood	State	MA	Country	USA	Citizenship	USA
Mailing Address	76 Hawktree Drive							
Mailing Address (In. 2)	City	Boston	State	MA	ZIP	02493	Country	USA
<input type="checkbox"/> Additional inventors are being named on the		supplemental Additional Inventor(s) sheet(s) attached hereto.						
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])		Family Name or Surname						
Annibale A.		Puca						
Inventor's Signature							Date 11/2/01	
Residence	City	Boston	State	MA	Country	USA	Citizenship	USA
Mailing Address	300 Longwood Avenue							
Mailing Address (In. 2)	City	Boston	State	MA	ZIP	02115	Country	USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])		Family Name or Surname						
Inventor's Signature							Date	
Residence	City		State		Country		Citizenship	
Mailing Address								
Mailing Address (In. 2)	City		State		ZIP		Country	

Declaration and Power of Attorney for Utility or Design Patent Application

Serial No. 09/928,102

Atty. Docket No. BIT-001

Page 3 of 3

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Name of Sole or First Inventor:		<input type="checkbox"/> A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])		Family Name or Surname						
Thomas T.		Perls						
Inventor's Signature							Date	
<i>Thomas Perls</i>							11/1/01	
Residence	City	Weston	State	MA	Country	USA	Citizenship	USA
Mailing Address	2 Harrison Lane							
Mailing Address (In. 2)	City	Weston	State	MA	ZIP	02493	Country	USA
<input type="checkbox"/> Additional inventors are being named on the		supplemental Additional Inventor(s) sheet(s) attached hereto.						
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])		Family Name or Surname						
Inventor's Signature							Date	
Residence	City		State		Country		Citizenship	
Mailing Address								
Mailing Address (In. 2)	City		State		ZIP		Country	
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])		Family Name or Surname						
Inventor's Signature							Date	
Residence	City		State		Country		Citizenship	
Mailing Address								
Mailing Address (In. 2)	City		State		ZIP		Country	



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Perls et al. Art Unit : Unknown
 Serial No. : 10/736,471 Examiner : Unknown
 Filed : December 15, 2003
 Title : GENETIC LOCI INDICATIVE OF PROPENSITY FOR LONGEVITY AND
 METHODS FOR IDENTIFYING PROPENSITY FOR AGE-RELATED
 DISEASE

Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

POWER OF ATTORNEY BY ASSIGNEES AND ELECTION OF
 ASSIGNEES TO CONDUCT PROSECUTION TO EXCLUSION OF INVENTORS

The undersigned, as authorized representative of the assignees of the entire right, title and interest in the above-identified application, hereby appoint

Louis Myers	Reg. No. 35,965
Catherine M. McCarty	Reg. No. 54,301
Ramon K. Tabtiang	Reg. No. 55,658
Laura Brass	Reg. No. 54,000
Laurie B. Lawrence	Reg. No. 46,593

as its attorneys and agents to prosecute the application and to transact all business in the Patent and Trademark Office (the Office, herein) connected therewith with full powers of substitution and revocation, said appointment to be to the exclusion of the inventors and their attorney(s) in accordance with the provisions of 37 CFR §3.71 *et seq.* of the Office's Rules of Practice.

Ownership is in the assignees by virtue of the assignment documents presently being recorded in the Office in connection with the parent application 09/928,102. These documents including the following assignments (copies enclosed):

- (i) an assignment by Thomas T. Perls to the Beth Israel Deaconess Medical Center,
- (ii) an assignment by Louis M. Kunkel to the Howard Hughes Medical Institute,

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

5/24/04

Date of Deposit

MJ

Signature

Megan Crowley

Typed or Printed Name of Person Signing Certificate

Applicant : Perls et al.
Serial No. : 10/736,471
Filed : December 15, 2003
Page : 2 of 2

Attorney's Docket No.: 13407-050001

(iii) an assignment by Annibale A. Puca to the Howard Hughes Medical Institute, and
(iv) an assignment by the Howard Hughes Medical Institute to the Children's Medical Center Corporation.

The documents evidencing ownership have been reviewed and to the best of the assignee's knowledge and belief, title is in the present assignees, the Beth Israel Deaconess Medical Center and the Children's Medical Center Corporation.

Please direct all communications regarding the application to customer number **26161** or to Louis Myers at the address and telephone numbers indicated below.

Louis Myers
FISH & RICHARDSON P.C.
225 Franklin Street
Boston, MA 02110-2804
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

Signature: Donald Lombard

Printed name: VALD P. LOMBARDI
Title: Chief Intellectual Property Officer

Assignee: The Children's Medical Center Corporation (Boston, MA)

Signature: _____

Printed name: _____

Title: _____

Assignee: The Beth Israel Deaconess Medical Center (Boston, MA)

RKT/mxc

Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110-2804
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

20786020.doc

Applicant : Perls et al.
Serial No. : 10/736,471
Filed : December 15, 2003
Page : 2 of 2

Attorney's Docket No.: 13407-050001

(iii) an assignment by Annibale A. Puca to the Howard Hughes Medical Institute, and
(iv) an assignment by the Howard Hughes Medical Institute to the Children's Medical Center Corporation.

The documents evidencing ownership have been reviewed and to the best of the assignee's knowledge and belief, title is in the present assignees, the Beth Israel Deaconess Medical Center and the Children's Medical Center Corporation.

Please direct all communications regarding the application to customer number 26161 or to Louis Myers at the address and telephone numbers indicated below.

Louis Myers
FISH & RICHARDSON P.C.
225 Franklin Street
Boston, MA 02110-2804
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

Signature: _____

Printed name: _____

Title: _____

Assignee: The Children's Medical Center Corporation (Boston, MA)

Signature: Mark Chalek

Printed name: Mark Chalek

Title: Director, Technology Ventures Office

Assignee: The Beth Israel Deaconess Medical Center (Boston, MA)

RKT/mxc

Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110-2804
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

20786020.doc

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, Howard Hughes Medical Institute, a Delaware corporation having a principal business address at 400 Jones Bridge Road, Chevy Chase, Maryland 20815-6789 ("ASSIGNOR"), is the owner of the entire right, title and interest in and to a certain patent application identified as United States Serial No. 09/928,102 entitled "GENETIC LOCI INDICATIVE OF PROPENSITY FOR LONGEVITY AND METHODS FOR IDENTIFYING PROPENSITY FOR AGE-RELATED DISEASE" ("the Patent Application"); and

WHEREAS, The Children's Medical Center Corporation, a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 300 Longwood Avenue, Boston, Massachusetts 02115 ("ASSIGNEE"), desires to acquire the entire right, title and interest in and to the Patent;

NOW, THEREFORE, for valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR does sell, assign, transfer and set over unto said ASSIGNEE, its successors and assigns, its entire right, title and interest in and to the Patent Application and any patents of the United States and all foreign countries which have been or shall be granted on an application that claims the benefit of the Patent Application, or on any divisionals, continuations, continuations-in-part, reissues, extensions or other applications that claim priority to an application that claims the benefit of the Patent Application; the same to be held and enjoyed by ASSIGNEE for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, to the end of the term or terms for which said patents are or may be granted or reissued, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR, if this assignment and sale had not been made; together with all claims for damages by reason of past infringement of said patents, with the right to sue for such damages, and collect the same for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives.

AND, ASSIGNOR agrees for itself and its successors and assigns, with said ASSIGNEE and its successors and assigns, but at the expense and charge of said ASSIGNEE, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the transfer to the said ASSIGNEE and its successors and assigns of said Patent Application in the United States and all other countries, with specifications and claims to vest and confirm in said ASSIGNEE and its successors and assigns, the legal title to all such patents and patent applications and to otherwise give full effect to and perfect the rights of said ASSIGNEE under this assignment.

AND, ASSIGNOR does hereby authorize and request competent authorities to issue any Letters Patent as shall be granted upon an application that claims the benefit of the Patent Application, or any other patent application referenced herein, to said ASSIGNEE and its successors and assigns. ASSIGNOR hereby covenants that it has full right to convey the entire

interest herein assigned, and that it has not executed, and will not execute, any agreements inconsistent herewith.

IN WITNESS WHEREOF, the ASSIGNOR has caused this instrument to be executed by its duly authorized officer this _____ day of _____, 2001.

Howard Hughes Medical Institute

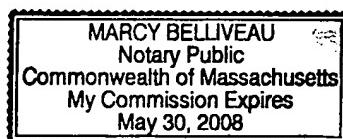
By: Liesl J. Kunkel

Title: Investigator

for himself and as agent for the Howard Hughes Medical Institute

Commonwealth of Massachusetts)
County of) ss

On this 18th day of March, 2008, before me appeared _____, to me personally known who, being duly sworn, did depose and say that he is the _____ of Howard Hughes Medical Institute, the corporation named in and which executed the foregoing instrument; and that said instrument was signed on behalf of said corporation; and said _____ acknowledged said instrument to be the free and authorized act and deed of said corporation.



Marcy Belliveau
Notary Public
My Commission Expires: 5/30/08

ASSIGNMENT

For valuable consideration, I, THOMAS T. PERLS of Weston, MA, hereby assign to:
The Beth Israel Deaconess Medical Center, a corporation of Massachusetts having a place of
business at:

330 Brookline Avenue
Boston, MA 02215; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title
and interest throughout the world in the inventions and improvements which are subject of an
application for United States Patent signed by me, entitled GENETIC LOCI INDICATIVE OF
PROPENSITY FOR LONGEVITY AND METHODS FOR IDENTIFYING PROPENSITY
FOR AGE-RELATED DISEASE, filed August 10, 2001, and assigned U.S. Serial Number
09/928,102, and I authorize and request the attorneys appointed in said application to hereafter
complete this assignment by inserting above the filing date and serial number of said application
when known; this assignment including said application, any and all United States and foreign
patents, utility models, and design registrations granted for any of said inventions or
improvements, and the right to claim priority based on the filing date of said application under
the International Convention for the Protection of Industrial Property, the Patent Cooperation
Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize
the Assignee to apply in all countries in my name or in its own name for patents, utility models,
design registrations and like rights of exclusion and for inventors' certificates for said inventions
and improvements; and I agree for me and my respective heirs, legal representatives and assigns,
without further compensation to perform such lawful acts and to sign such further applications,
assignments, Preliminary Statements and other lawful documents as the Assignee may
reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Boston, MA,
this 31st day of January, 2003
Thomas Perls L.S.
THOMAS T. PERLS

Witnessed by: EJL
Name: Edward J. Christensen Date: January 31, 2003

Witnessed by: _____
Name: _____ Date: _____

Subscribed and sworn before me, Edward J.
Christensen on this 31st day of January, 2003.

20589081.doc

EJL
My com expires: 11/4/05

ASSIGNMENT

Assignment made Feb. 21, 2002, by Louis M. Kunkel, PhD ("Inventor") to the Howard Hughes Medical Institute, a Delaware corporation (the "Institute").

Recitals

WHEREAS, Inventor is an employee of the Institute and, as a condition of his employment, has signed the Agreement appended to the Institute's Policy on Intellectual Property (the "Intellectual Property Agreement");

WHEREAS, pursuant to the Intellectual Property Agreement, Inventor has agreed (a) to assign to the Institute all rights he may acquire in any invention, discovery, improvement, or other intellectual property, whether or not patentable or copyrightable, developed directly or indirectly as a result of a program of research financed by Institute funds or funds under the control of the Institute (each a "Subject Property") and (b) to execute any agreements that may be desired by the Institute in connection with such assignment;

WHEREAS, Inventor has, alone or with others invented "Genetic Predisposition to the Attainment of Extreme Old Age" which may be the subject of a patent application (the "Invention"), and the Invention is a Subject Property; and

WHEREAS, Inventor seeks to make a formal assignment of his interest in the Invention to the Institute, and the Institute desires the execution of a formal assignment of all of Inventor's right, title, and interest in the Invention.

NOW, THEREFORE, in consideration of the promises contained in and the acts performed and to be performed pursuant to the Intellectual Property Agreement and of other good and valuable consideration, the receipt of which is hereby acknowledged by Inventor, Inventor agrees as follows:

1. Assignment. Inventor hereby assigns to the Institute his entire right, title, and interest in the Invention; any United States patent applications and all corresponding foreign patent applications which are directed to the Invention (including, without limitation, the patent application entitled "Genetic Loci Indicative of Propensity for Longevity and Methods for Identifying Propensity for Age-Related Disease" filed in the United States Patent and Trademark Office on August 10, 2001 with Serial Number 09/928,102), and any and all patents issued therefrom; all United States or foreign division and continuation applications based on any of the foregoing, and any and all patents issued therefrom; and all claims which are directed to the Invention and which may be contained in continuation-in-part applications or in patents which issue therefrom.

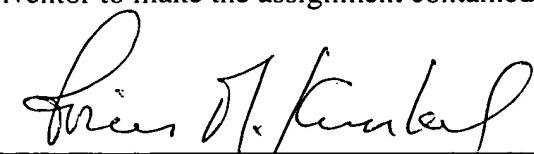
2. Cooperation. Inventor agrees to execute upon request such further assignments, documents, and other instruments as may be necessary or desirable to assign Inventor's entire right, title and interest in the Invention to the Institute and to assist the Institute (or others at the direction of the Institute) in applying for, obtaining, and enforcing patents,

copyrights, or other rights in the United States and in any foreign country with respect to the Invention.

3. Parties. The terms and provisions of the Assignment shall inure to the benefit of the Institute and its successors and assigns and shall be binding on the Inventor and his heirs, personal representatives and assigns.

4. Warranty. Inventor warrants and represents that he has not entered into any assignment, contract, or understanding in conflict herewith, and that there is no other person or entity whose consent is required in order for the Inventor to make the assignment contained herein.

Inventor:



Louis M. Kunkel, PhD

Commonwealth of Massachusetts

County of _____

Then personally appeared before me the above-named Louis M. Kunkel, PhD and acknowledged that he executed the foregoing instrument in his authorized capacity this 21 day of February, 2002

(SEAL)

Notary Public: Marcey Belliveau



Marcey Belliveau

(print name)

My Commission Expires: 5/30/08

CMCC 814
HHMI 01973

ASSIGNMENT

Assignment made Feb. 20, 2002, by Annibale A. Puca, MD
("Inventor") to the Howard Hughes Medical Institute, a Delaware corporation (the "Institute").

Recitals

WHEREAS, Inventor is an employee of the Institute and, as a condition of her employment, has signed the Agreement appended to the Institute's Policy on Intellectual Property (the "Intellectual Property Agreement");

WHEREAS, pursuant to the Intellectual Property Agreement, Inventor has agreed (a) to assign to the Institute all rights she may acquire in any invention, discovery, improvement, or other intellectual property, whether or not patentable or copyrightable, developed directly or indirectly as a result of a program of research financed by Institute funds or funds under the control of the Institute (each a "Subject Property") and (b) to execute any agreements that may be desired by the Institute in connection with such assignment;

WHEREAS, Inventor has, alone or with others invented "Genetic Predisposition to the Attainment of Extreme Old Age" which may be the subject of a patent application (the "Invention"), and the Invention is a Subject Property; and

WHEREAS, Inventor seeks to make a formal assignment of her interest in the Invention to the Institute, and the Institute desires the execution of a formal assignment of all of Inventor's right, title, and interest in the Invention.

NOW, THEREFORE, in consideration of the promises contained in and the acts performed and to be performed pursuant to the Intellectual Property Agreement and of other good and valuable consideration, the receipt of which is hereby acknowledged by Inventor, Inventor agrees as follows:

1. Assignment. Inventor hereby assigns to the Institute her entire right, title, and interest in the Invention; any United States patent applications and all corresponding foreign patent applications which are directed to the Invention (including, without limitation, the patent application entitled "Genetic Loci Indicative of Propensity for Longevity and Methods for Identifying Propensity for Age-Related Disease" filed in the United States Patent and Trademark Office on August 10, 2001 with Serial Number 09/928,102), and any and all patents issued therefrom; all United States or foreign division and continuation applications based on any of the foregoing, and any and all patents issued therefrom; and all claims which are directed to the Invention and which may be contained in continuation-in-part applications or in patents which issue therefrom.

2. Cooperation. Inventor agrees to execute upon request such further assignments, documents, and other instruments as may be necessary or desirable to assign Inventor's entire right, title and interest in the Invention to the Institute and to assist the Institute (or others at the direction of the Institute) in applying for, obtaining, and enforcing patents,

copyrights, or other rights in the United States and in any foreign country with respect to the Invention.

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4. Warranty. Inventor warrants and represents that she has not entered into any assignment, contract, or understanding in conflict herewith, and that there is no other person or entity whose consent is required in order for the Inventor to make the assignment contained herein.

Inventor:


Annibale A. Puca, MD

Commonwealth of Massachusetts

County of Middlesex

Then personally appeared before me the above-named Annibale A. Puca, MD and acknowledged that ~~she~~ executed the foregoing instrument in ~~her~~ authorized capacity this 20th day of February, 2002.

Notary Public: Kate F. Milburn

(SEAL)

KATE F. MILEURN
(print name) My Commission Expires
July 8, 2005

My Commission Expires: _____

CMCC 814
HHMI 01973